RACU ACTIVATION

1. VERIFY FGB COMMAND STATUS

NOTE
RACU commands sent from Orbiter will not work if FGB relay matrix is in **MCC-M** command state (COMMANDING - INH). Crew can follow ground activities using the "If ENA" block below.

CRT SM 204 FGB

√COMMANDING - INH

2. If COMMANDING - INH

Shuttle ⇓ **MCC-H**: "Ready for RACU5(6) Power On"
MCC-H ⇒ **MCC-M**: "Go for RACU5(6) Power On"

RUSSIAN GROUND	AOS	LOS
Pass 1	___/___:___:___	___/___:___:___
Pass 2	___/___:___:___	___/___:___:___

MCC-M ⇒ **MCC-H** ⇑ Shuttle: "RACU5(6) Power On at ___/___:___:___ GMT"

3. If COMMANDING - ENA

Shuttle ⇓ **MCC-H**: "Ready for RACU5(6) Power On"
MCC-M ⇒ **MCC-H**: "Go for RACU5(6) Power On"
MCC-H ⇑ Shuttle: "Go for RACU5(6) Power On"

On MCC GO

CRT SM 204 FGB

PCS nav FGB: EPS
FGB: EPS

FGB: EPS

√FGB Main Bus Voltage 1,2 (two): 28.0 --- 29.0 V
√FGB Batt Voltage 1 --- 6 (six) > 25.5 V

****
* If any FGB Batt Voltage < 25.5 Volts, then *
* notify **MCC**: "FGB Batteries Low." *
* Wait one orbit for FGB batteries to charge. *
****

CRT SM 210 NODE

√FRM CTR - Incrementing

If FRM CTR - Static

SM 204 FGB

RACU 5(6) PWR ON VIA FGB - ITEM 1 (ITEM 3) EXEC

√RACU 5(6) Power On - *

√Input Amps > 3.0 A

√Output Volts: 121---125 V

√Amps: 0.3 --- 10 A

NOTE

Amperage should be at 0.5 amps at power On. Amperage could be as high as 10 amps after MDM initialization (approximately 2.5 minutes), depending on heater usage.

```
*****************************************************
*  If RACU 5(6) OUT AMPS > 10                       *
*    RACU 5(6) PWR OFF VIA FGB - ITEM 5             *
*    (ITEM 7) EXEC                                  *
*****************************************************
```

If FRM CTR - Incrementing

SM 204 FGB

RACU 5(6) PWR ON VIA NCS - ITEM 2 (ITEM 4) EXEC

√RACU 5(6) Power On - *

√Input Amps > 3.0 A

√Output Volts: 121---125 V

√Amps: 0.3 --- 10 A

NOTE

Amperage should be at 0.5 amps at power On. Amperage could be as high as 10 amps after MDM initialization (approximately 2.5 minutes), depending on heater usage.

```
*****************************************************
*  If RACU 5(6) OUT AMPS > 10                       *
*    RACU 5(6) PWR OFF VIA FGB - ITEM 6             *
*    (ITEM 8) EXEC                                  *
*****************************************************
```

PCS

nav FGB: EPS

FGB: EPS

sel RACU Details
sel Commands
cmd FGB RACU 5(6) - On **Execute**
√RACU 5(6) Converter - On
√RACU 5(6) Converter Input Current > 3.0 A
√Output Current: 0.5 --- 10 A
√Voltage: 121 --- 125 V

NOTE

Amperage should be at 0.5 amps at power On. Amperage could be as high as 10 amps after MDM initialization (approximately 2.5 minutes), depending on heater usage.

****
* If RACU 5(6) Output Current > 10 *
* sel Commands *
* **cmd** FGB RACU 5(6) - Off **Execute** *
****